

TAMUZ
MONITORS

LSM 120W HD

Digital Broadcast Monitor



A high-quality multi-format Broadcast Video Monitor, for SD and HDTV applications

- High-resolution active matrix TFT LCD color displays
- QA follows EBU t3325 Recommendation. assured by KonicaMinolta CS-2000
- 4:3 and 16:9 aspect ratio mode, overscan/underscan mode
- MultiSync and MultiFormat capability
- De-interlacer switchable, shortest processing time 1 field
- Multiple inputs for SD/HD-SDI, RGBHV, RGsB or RGBS, DVI / HDMI, CCVS
- OSD menu for individual setups
- IR remote controller and IP addressable 10/100 baseT port
- UMD, Tally and Timecode In-Monitor-Display functionality for UMD, Tally and Timecode
- Built-in AAC Auto Alignment and Calibration with optional Color Analyzer probe
- Rugged and compact lightweight full metal housing design
- Anti-reflective glass protection filter, optional with ND function
- Low-Power and Fan-less design



**High-End Monitoring Solutions for
Broadcast, Industrial, Medical, Office, Entertainment,
Surveillance, Military or Aviation applications!**

MultiFormat Digital Broadcast Monitors

The LargeScreen **SPARROWHAWK** series are designed as an universal digital monitor, ideal for displaying the output of MultiViewer's. LSM series monitors are available as purely DVI input devices or with DVI and HDS/SDI inputs, to present HDTV studio signals directly and cost effectively.

Technical Specifications:

Screen Type: active matrix color TFT, MVA technology
 Screen Size: 20" wide
 Screen Format: 16:9 aspect ratio, 16:10 native
 Pixel Resolution: 1680 x 1050 RGB dots
 Screen Resolution: 101 dpi
 Color Resolution: 16 million colors
 Color Reproduction: full EBU color space
 Color Temperature: 6504 K nominal
 Color Temp. Range: 3200 to 9500 K select and adjustable
 Brightness @ SL Version: aligned to 80 cd/m² (EBU t3320)
 Black @ SL Version: aligned to <0,08 cd/m²
 Contrast @ SL Version: >1.000:1 for static B/W/B
 Brightness @ standard: aligned to 250 cd/m², max. 300 cd/m²
 Black @ standard: aligned to <0,4 cd/m²
 Contrast @ standard: >800:1 for static B/W/B
 Response Time: 4 ms, typical
 Viewing Angle H: ±80° horizontal
 Viewing Angle V: ±80° vertical
 Backlight: multiple special CCF Lamps
 Backlight Lifetime: >50.000 h's
 Screen Classification: A Grade
 Screen Certification: ISO 13406-2, Cl. 2

Timecode/ UMD: IMD (In-monitor-Display)
 Tally Light: IMD (In-monitor-Display)
 Tally Function: closed contact at GPI/O port
 Tally Connector: Sub-D 9pin

Remote Port: 10/100 baseT TCP/IP
 Remote Connector: RJ-45
 Web Interface: accessible with any browser

Adapted Power Supply: Switching Power Supply
 Power Consumption: 43 W (@ LSM 120W SL HD)
 Mains Voltage: AC 100-240 V ±10%, 50-60 Hz
 Mains Connector: IEC-320 3pin
 Power Safety: ground on frame

Housing: full lightweight metal
 Frame Color: coated RAL 9005
 Panel Protection: non-glare anti-reflective glass filter
 Dimensions: 466 (W) x 310 (H) x 90 D) mm
 Dimensions w. IR/AAC: 466 (W) x 352 (H) x 90 D) mm
 Weight: 8,3 kg incl. glass filter
 VESA Mounting: VESA100 threads at rear

Environment: 0 to +45°C, operation
 Storage: -30 to +60°C, 5 to 90% humidity
 Certification: CE, EN 50082-2, EN 55022

Accessories: IR Remote, manual
 Options: analog HD Component Inputs, static desktop stand, flexible desktop stand, 19" 7/8 RU rack mount kit

Interface Type: TAMUZ FALCON
 Interface Characteristic: HDTV MultiFormat
 Image Processing: scanning free scalable to any ratio, HDTV native 4:2:2 10 to 8 bit dithering
 Video Processing: HiRes digital adaptive Comb Filter, HiRes digital pixel mapping
 Processing Times: min. 1 field@I-mode, 1 frame@ P-mode
 Serial Digital Processing: native SMPTE 292M or 352M
 Aspect Ratio: 16:9, full image as standard
 Under-/Overscan Mode: Yes
 Markers: Center, SafeArea, SafeTitle, 4:3 SD, Academy, CinemaScope, User
 IMD Function: UMD, Timecode, Tally
 Operation: OSD Menu
 Remote Operation: IR remote, RS 232, TCP/IP 10/100

SD/HD-SDI Inputs: 2x 10 bit, 1.5 Gbit/s
 800 mVpp, SingleLink, 4:2:2
 SD/HD Formats: SMPTE 260M / 274M / 269M / 352M
 1080i @ 30 / 29.97 / 25
 1080p @ 30 / 29.97 / 25 / 24 / 23.98
 720p @ 60 / 59.97 / 50
 576i @ 25
 480i @ 30

SD/HD-SDI Impedance: 75 Ohm terminated
 SD/HD-SDI Connector: BNC 75 Ohms type

Graphic analog Input: 1x W-SXGA 1680 x 1050, native
 Graphic digital Input: 1x DVI-D 1680 x 1050, native
 Graphic Formats: CGA, EGA, VGA, SVGA, W-SVGA, XGA, W-XGA, SXGA, W-SXGA, UXGA, W-UXGA, MAC, Hercules and more

Sync Mode: HV, RGsB, RGBS, composite
 V-Sync: Vmin = 23 Hz, Vmax = 110 Hz
 H-Sync: Hmin = 15 kHz, Hmax = 85 kHz
 Graphic Connector: Sub-D 15pin HD
 DVI Connector: DVI-D 28pin

Composite Video Input: 2x 1 Vpp, 5 MHz ±0.2 dB
 Video Sync: composite
 Video S/N: >65 dB
 Video Standards: 625/50, 525/60, auto detection
 WSS Detection: at PAL
 Impedance: 75 Ohm active loop through
 Video Connector: BNC 75 Ohms type

Component Input: 1x 700 mVpp, 30 MHz ±1.5 dB
 Component Formats: RGB/YUV
 Component HD: 1080i60, 1080i50, 1080p60, 1080p50
 Component SD: 625i50, 525i60
 Component Sync: composite, Sync on Green
 Component S/N: >60 dB
 Component Impedance: 75 Ohm terminated

The **SPARROWHAWK** monitors are available in various screen sizes from 20"W up to 82"W. All monitors are equipped with the Automatic Alignment and Calibration feature (AAC) using a color analyzer probe. The integrated TCP/IP port allows remote control by the MRC software.

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